VOLTAN
POWERING CONNECTIONS • ENERGIZING SOLUTIONS

Quality Assurance Department

Test Report

Cable Type:	1 Pair KNX PVC	**Test Date:**	27/August/2026
Cable Part Number:	V1PKPV	**PO Number:**	VLTDFZ-013R1
Production Date:	15/06/2026	**Batch** No:	VLTDFZ-013R1

Physical Properties:

Item	Specification Requirement	Measured value
Inner conductor Material	CU	Yes
Insulation Conductor Diameter	0.800±0.010mm	0.81
Insulation colour	Red, Black	Yes
Insulation Material	PE	Yes
Insulation Diameter	1.45±0.10mm	1.53
Insulation Concentricity	90%	93%
Lay Length	70mm, nominal	71
PET Width	13 MM	13
Aluminium Foil Width	13 MM	13
Drain Wire Material	TC	YES
Drain Wire Diameter	0.400±0.010mm	0.39
Rip Cord	3×200D	YES
Jacket Material	PVC	YES
Jacket Colour	Green（RAL6018）	YES
Jacket Diameter	4.60±0.20mm	4.80
Jacket Wall Thickness	0.80mm，nominal	0.80
Print Height	2.0±0.5mm	2.5
Jacket Print	V1PKPV-VOLTAN UK KNX Cable 1 Pair, Shielded Cable, PVC Jacket	

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Mechanical & Electrical Properties:

Item	Specification Requirement	Measured value
Cold Bend Test @ -15ºC, 4hours	No visible Damage	Yes
Environmental testing	RoHS2.0	Yes
Conductor DCR @20℃, Max	37.5 Ohms/km	34
Conductor Capacitance	10-100 nF/km	63.4
Characteristic Impedance	100±25 Ohms	93
Inductance	450-850 μH/km（10kHz）	455
Rated Voltage	300V	yes
Attenuation	≤9.5 dB（0.5-5MHz）	7.83
	≤20 dB（5-25MHz）	13.48

COMBUSTION TEST

Item	Specification Requirement	Measured value
Flame application time	60S max	60
Flame spread distance	425 MM Max	115
Burn time after removal from fire	S	7.5

Conclusion: PASS

Approved By: Song Wenfeng 27/August/2026

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Test Report

Cable Type: 1 Pair KNX LSZH

Test Date: 14/Aug/2026

Cable Part Number: V1PKLZ

PO Number: VLTDFZ-007

Production Date: 29/June/2026

Batch No : VLTDFZ-007

Physical Properties:

Item	Value	Specification Requirement	Measured value
No Of cores	N/A	2 Core	OK
Dia Of the Conductor	mm	0.80	0.80
Insulation type	N/A	LSZH	OK
Insulation thickness	mm	0.3 nom	0.3
Insulation OD.	mm	1.45	1.45
Colour code	N/A	Black Core 2: Red Core 3: White Core 4: Yellow	OK
Layup	N/A	Quad 1 Pair	OK
Core wrap	N/A	PET Foil	OK
Outer Jacket type	N/A	LSZH	OK
Outer Jacket colour	N/A	Green	OK
Radial thickness	mm	0.8 nom	0.8
Cable OD.	mm	4.6 nom	4.6
Surface marking	N/A	V1PKLZ-VOLTAN UK KNX Cable 1 Pair, Shielded Cable, LSZH Jacket	

Mechanical & Electrical Properties:

Item	Value	Specification Requirement	Measured value
DC resistance	Ω/km	37	37
Insulation resistance	MΩ*km	As per Standard	PASS
Insulation dielectric strength	V/minute	As per Standard	PASS
Flame test	N/A	As per Standard	PASS
Cable weight	Kg/km	37	37

Conclusion: PASS

Approved By: Hashim Acharath 14/Feb/2026